BARRY TRAN

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EDUCATION

University of Adelaide   Adelaide, SA
Bachelor of Computer Science (Advanced), GPA: 6.8/7.0   *July 2023 – Nov. 2025 (Expected)*

Relevant Coursework *Algorithm Design & Data Structures, Artificial Intelligence, Computer Vision, Statistical Modeling & Inference, Optimization, Web & Database Computing, Computer Systems,...*

EXPERIENCE

Lyra
Forward Deployed Engineer   *Mar. 2025 – Present*
- Working directly with clients and cross-functional teams - including product and business stakeholders - to design, build, and ship AI agents that automate complex workflows for early-stage startups.
- Developing scalable backend systems and deploy production-ready solutions under tight timelines in a fast-paced environment, rapidly iterating based on real-world feedback.

Canva
Machine Learning Engineer Intern   *Dec. 2024 – Feb. 2025*
- Fine-tuned open-source Large Language Models like Llama and Mistral for Design Relayout, improving spatial reasoning and achieving a 20% improvement in layout quality, evaluated through manual review.
- Researched advanced methods like Vision-Language Models, Graphist, and Diffusion to enhance Design Relayout with fine-tuned LLMs and conversational reasoning techniques.

Australian Institute for Machine Learning
Undergraduate Research Student | BBVisual Lab - Supervisor: Prof. Minh Hoai Nguyen   *Aug. 2024 – Jul. 2025*
- Research Topic: "Open-world Class-Agnostic Visual Counting"
- Worked on building better visual counting model using negations, or what not to count.

Summer Research Intern - Supervisor: Dr. Antonios Perperidis   *Nov. 2023 – Feb. 2024*
- Research Topic: "Exploring 4D X-ray Velocimetry (XV) Imaging and Machine Learning for the Detection and Monitoring of Cystic Fibrosis Disease in clinical Data."
- Developed an ensemble model with feature extraction that achieved an impressive 89% accuracy in its results.

MIT Media Lab
Research Intern | MIT Adelaide Living Lab - Supervisor: Tobin South   *Feb. 2024 – Oct. 2024*
- Research Topic: "Benchmarking Backdoor Attack fine-tuning methods in Diffusion models"
- Researched various aspects of AI backdoor attacks, and its application in sub-fields like advertising, security, etc.

COMMUNITY INVOLVEMENT

Adelaide University Mathematics Society
President ← Second-year Representative   *Oct. 2023 – Mar. 2025*
- Led the society's growth to over 300 members by organizing key events such as Pi Day, AUMS Weekly Puzzle, Maths Olympiads, and Pub Crawls, fostering both academic and social engagement.
- Developed and launched the society's website, improving outreach and streamlining event coordination, while managing collaborations with staff, sponsors, and other student organizations.

HONORS AND AWARDS

Third Prize | *Vietnamese Mathematical Olympiad*   *Mar. 2023*
Meritorious Prize | *International Mathematical Modeling Challenge*   *May 2022*

TECHNICAL SKILLS

Languages: Python, TypeScript, C++, JavaScript, HTML/CSS, LATEX, Dart, R, MATLAB
Frameworks: PyTorch, n8n, FastAPI, Next.js, Flask, Streamlit, Unsloth, BrowserUse, Langchain
Developer Tools: Git, Docker, Google Colab, Google Cloud Platform, Jupyter Notebook, Linux, AWS